

ARBORIST REPORT

**PLACER COUNTY LAND DEVELOPMENT BUILDING
DEWITT CENTER, AUBURN, CA**

Submitted by:

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Dated: September 17, 2002**

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TREE CONDITION CATEGORIES

GOOD Trees which are given this rating show good annual growth, very few parasites and good balanced branching with little damage. There is very little decay and no evidence of internal decay. The root crown is situated above or at the natural grade. The trunk and branches are sound, with little decay

NORMAL Trees in this rating have most of the criteria of a "Good" tree but may have slight decay, some mistletoe and insect infestation

FAIR The trees may have some decay of branches and twig and branch dieback. Wounds are evident which are healed (calloused over). There is no decay which will negatively affect the strength of the trunk or branch. The tree may have mistletoe and insects. There may be more dieback than normally existing. The structure of the branching may exhibit more lean of trunk or branch and show more sparse leaf cover.

POOR Trees in this rating exhibit excessive root crown decay, hollow trunk and branches. Cavities are evident and structurally weak. Fungus may be present in the form of adult bodies. Dead branches and twig dieback are extensive. Foliage is sparse and may exhibit abundant mistletoe growth.

PLACER COUNTY LAND DEVELOPMENT BUILDING

TREE LEGEND

TREE # 39	<i>Platanus acerifolia</i> - Oriental Plane
TREE # 508	<i>Pinus virginiana</i>
TREE # 509	<i>Sequoiadendron giganteum</i> - Giant Sequoia
TREE # 510	<i>Sequoiadendron giganteum</i> - Giant Sequoia
TREE # 511	<i>Sequoiadendron giganteum</i> - Giant Sequoia
TREE # 512	<i>Sequoiadendron giganteum</i> - Giant Sequoia
TREE # 520	<i>Acer saccharinum</i> - Silver Maple
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TREE # 526	<i>Acer saccharinum</i> - Silver Maple
TREE # 527	<i>Acer saccharinum</i> - Silver Maple
TREE # 528	<i>Acer saccharinum</i> - Silver Maple
TREE # 529	<i>Liquidambar styraciflua</i> - Sweet Gum
TREE # 530	<i>Liquidambar styraciflua</i> - Sweet Gum
TREE # 531	<i>Liquidambar styraciflua</i> - Sweet Gum
TREE # 532	<i>Liquidambar styraciflua</i> - Sweet Gum
TREE # 533	<i>Liquidambar styraciflua</i> - Sweet Gum
TREE # 534	<i>Liquidambar styraciflua</i> - Sweet Gum
TREE # 542	<i>Quercus douglasii</i> - Blue Oak
TREE # 543	<i>Quercus douglasii</i> - Blue Oak
TREE # 548	<i>Acer saccharinum</i> - Silver Maple
TREE # 563	<i>Ulmus parvifolia</i> - Chinese Elm
TREE # 575	<i>Cupressus glabra</i> - Arizona Cypress
TREE # 828	<i>Quercus suber</i> - Cork Oak
TREE # 848	<i>Cinnamomum camphora</i> - Camphor Tree
TREE # 849	<i>Cinnamomum camphora</i> - Camphor Tree
TREE # 850	<i>Cinnamomum camphora</i> - Camphor Tree
TREE # 856	<i>Cinnamomum camphora</i> - Camphor Tree
TREE # 983/535	<i>Quercus douglasii</i> - Blue Oak

ARBORIST REPORT EVALUATION

PLACER COUNTY LAND DEVELOPMENT BUILDING

TREE # 39 *Platanus acerifolia* - London Plane Tree

Diameter	Trunks: 19"
Dripline Radius	25'
Root Crown	Normal
Trunk	Normal
Limbs	Normal
Foliage	Normal
Dripline Environment	Open Lawn
Overall Condition	Good (5)
Comments	

TREE # 512 *Sequoiadendron giganteum* - Giant Sequoia

Diameter	Trunks: 29"
Dripline Radius	11'
Root Crown	Sound
Trunk	Good
Limbs	Normal W/Dieback
Foliage	Normal
Dripline Environment	Open/Lawn
Overall Condition	Good (5)
Comments	

TREE # 508 *Pinus virginiana*

Diameter	Trunks: 25"
Dripline Radius	19'
Root Crown	Normal
Trunk	Normal
Limbs	Normal/w/Dieback
Foliage	Normal
Dripline Environment	Open Lawn
Overall Condition	Good (5)
Comments	

TREE # 520 *Acer saccharinum* - Silver Maple

Diameter	Trunks: 24"
Dripline Radius	27'
Root Crown	Normal
Trunk	Normal
Limbs	Normal
Foliage	Normal/Sparse
Dripline Environment	Open/Lawn
Overall Condition	Good/Fair (4)
Comments	Need irrigation - shows stress

TREE # 509 *Sequoiadendron giganteum* - Giant Sequoia

Diameter	Trunks: 21"
Dripline Radius	11'
Root Crown	Sound
Trunk	Good
Limbs	Normal w/Dieback
Foliage	Normal
Dripline Environment	Openw/Lawn @ Perimeter
Overall Condition	Good (5)
Comments	

TREE # 521 *Acer saccharinum* - Silver Maple

Diameter	Trunks: 11"
Dripline Radius	18'
Root Crown	Normal
Trunk	Normal
Limbs	Excess Dieback
Foliage	Sparse
Dripline Environment	Open/Lawn
Overall Condition	Fair/Poor (2)
Comments	Drought Stress - Remove

TREE # 510 *Sequoiadendron giganteum* - Giant Sequoia

Diameter	Trunks: 28"
Dripline Radius	12'
Root Crown	Normal
Trunk	Good
Limbs	Normal/w/Dieback
Foliage	Normal
Dripline Environment	Open/Lawn
Overall Condition	Good (5)
Comments	

TREE # 522 *Acer saccharinum* - Silver Maple

Diameter	Trunks: 26"
Dripline Radius	26'
Root Crown	Normal
Trunk	Sound/Decay
Limbs	
Foliage	Sparse
Dripline Environment	Open/Lawn
Overall Condition	Fair (3)
Comments	Irrigate

TREE # 511 *Sequoiadendron giganteum* - Giant Sequoia

Diameter	Trunks: 36"
Dripline Radius	16'
Root Crown	Normal
Trunk	Normal
Limbs	Normal/w/Dieback
Foliage	Normal
Dripline Environment	Open/Lawn
Overall Condition	Good (5)
Comments	

TREE # 523 *Acer saccharinum* - Silver Maple

Diameter	Trunks: 18"
Dripline Radius	19'
Root Crown	Normal
Trunk	Normal
Limbs	Normal/Excess Dieback
Foliage	Sparse
Dripline Environment	Open/Lawn
Overall Condition	Poor (1)
Comments	Remove Tree

TREE # 524 Acer saccharinum - Silver Maple Diameter Trunks: 21" Dripline Radius 26' Root Crown Normal Trunk Decay Limbs Normal/Excess Dieback Foliage Normal Dripline Environment Open/Lawn Overall Condition Good (5) Comments Crown clean irrigation	TREE # 529 Liquidambar styraciflua - Sweet Gum Diameter Trunks: 14" Dripline Radius 12' Root Crown Normal Trunk Normal Limbs Normal Foliage Normal Dripline Environment Open/Lawn Overall Condition Good (5) Comments Prune, irrigate
TREE # 525 Acer saccharinum - Silver Maple Diameter Trunks: 16" Dripline Radius 20' Root Crown Normal Trunk Sound Limbs Normal/Excess Dieback Foliage Sparse Dripline Environment Open/Lawn Overall Condition Fair (3) Comments Remove Tree	TREE # 530 Liquidambar styraciflua - Sweet Gum Diameter Trunks: 13" Dripline Radius 10' Root Crown Normal Trunk Decay Limbs Normal Foliage Normal Dripline Environment Open/Lawn Overall Condition Fair (3) Comments Prune, irrigate
TREE # 526 Acer saccharinum - Silver Maple Diameter Trunks: 24" Dripline Radius 22' Root Crown Normal Trunk Normal Limbs Excess Dieback/Decay Foliage Sparse Dripline Environment Open/Lawn Overall Condition Fair (3) Comments Crown, clean, irrigate	TREE # 531 Liquidambar styraciflua - Sweet Gum Diameter Trunks: 16" Dripline Radius 16' Root Crown Normal Trunk Normal Limbs Normal Foliage Normal Dripline Environment Open/Lawn Overall Condition Good (5) Comments Prune, irrigate
TREE # 527 Acer saccharinum - Silver Maple Diameter Trunks: 21" Dripline Radius 24' Root Crown Normal Trunk Decay Limbs Excess Dieback Foliage Sparse Dripline Environment Open/Lawn Overall Condition Fair/Poor (2) Comments Remove Tree	TREE # 532 Liquidambar styraciflua - Sweet Gum Diameter Trunks: 11" Dripline Radius 14' Root Crown Normal Trunk Normal Limbs Normal Foliage Normal Dripline Environment Open/Lawn Overall Condition Good (5) Comments Prune, irrigate
TREE # 528 Acer saccharinum - Silver Maple Diameter Trunks: 11" Dripline Radius 16' Root Crown Normal Trunk Sound Limbs Excess Dieback/Damaged Decay Foliage Normal Dripline Environment Open/Lawn Overall Condition Fair/Poor (2) Comments Irrigate - Remove dead wood	TREE # 533 Liquidambar styraciflua - Sweet Gum Diameter Trunks: 15" Dripline Radius 16' Root Crown Normal Trunk Normal Limbs Normal Foliage Normal Dripline Environment Open/Lawn Overall Condition Good (5) Comments Prune, irrigate

TREE # 534 Liquidambar styraciflua - Sweet Gum Diameter Trunks: 16" Dripline Radius 12' Root Crown Normal Trunk Normal Limbs Normal Foliage Normal Dripline Environment Open/Lawn Overall Condition Good (5) Comments Prune, irrigate	TREE # 575 Cupressus glabra - Arizona Cypress Diameter Trunks: 19" Dripline Radius 12' Root Crown Sound Trunk Good Limbs Foliage Dripline Environment Overall Condition Good/Fair (4) Comments
TREE # 542 Quercus douglasii - Blue Oak Diameter Trunks: 15-19-18"-24" Dripline Radius 25' Root Crown Normal Trunk Decay Limbs Normal/Excess Dieback Foliage Sparse Dripline Environment Open/Lawn Overall Condition Poor (1) Comments Remove Tree	TREE # 828 Quercus suber - Cork Oak Diameter Trunks: 7-12-14" Dripline Radius 25' Away from Building Root Crown Normal Trunk Normal Limbs Normal Foliage Normal Dripline Environment Open, building Overall Condition Good (5) Comments See written report
TREE # 543 Quercus douglasii - Blue Oak Diameter Trunks: 34" Dripline Radius 35' to the West Root Crown Normal Trunk Normal Limbs Normal Foliage Normal Dripline Environment Building Overall Condition Good/Fair (4) Comments Reduce Branch end weight to balance tree.	TREE # 848 Cinnamomum camphora - Camphor Tree Diameter Trunks: 10-12-12" Dripline Radius 25' Root Crown Normal Trunk Normal Limbs Normal/w/Dieback Foliage Normal Dripline Environment Open/Lawn Overall Condition Good/Fair (4) Comments Remove dead wood.
TREE # 548 Acer saccharinum - Silver Maple Diameter Trunks: 31" Dripline Radius 33' Root Crown Normal Trunk Normal Limbs Normal/w/Dieback Foliage Normal Dripline Environment Open/Lawn Overall Condition Good (5) Comments Maintain irrigation on all trees to be kept. Prune dead wood.	TREE # 849 Cinnamomum camphora - Camphor Tree Diameter Trunks: 19" Dripline Radius 25' Root Crown Normal Trunk Normal Limbs Normal/w/Dieback Foliage Normal Dripline Environment Open/Lawn Overall Condition Good/Fair (4) Comments Crown clean
TREE # 563 Ulums parvifolia - Chinese Elm Diameter Trunks: 24" Dripline Radius 30' Root Crown Normal Trunk Normal Limbs Normal/w/Dieback Foliage Normal Dripline Environment Open/Lawn Overall Condition Good (5) Comments Need irrigation remove dead wood	TREE # 850 Cinnamomum camphora - Camphor Tree Diameter Trunks: 10-12-12" Dripline Radius 25' Root Crown Normal Trunk Normal Limbs Normal/w/Dieback Foliage Normal Dripline Environment Open/Lawn Overall Condition Good/Fair (4) Comments Crown clean

TREE # 856 **Cinnamomum camphora - Camphor Tree**

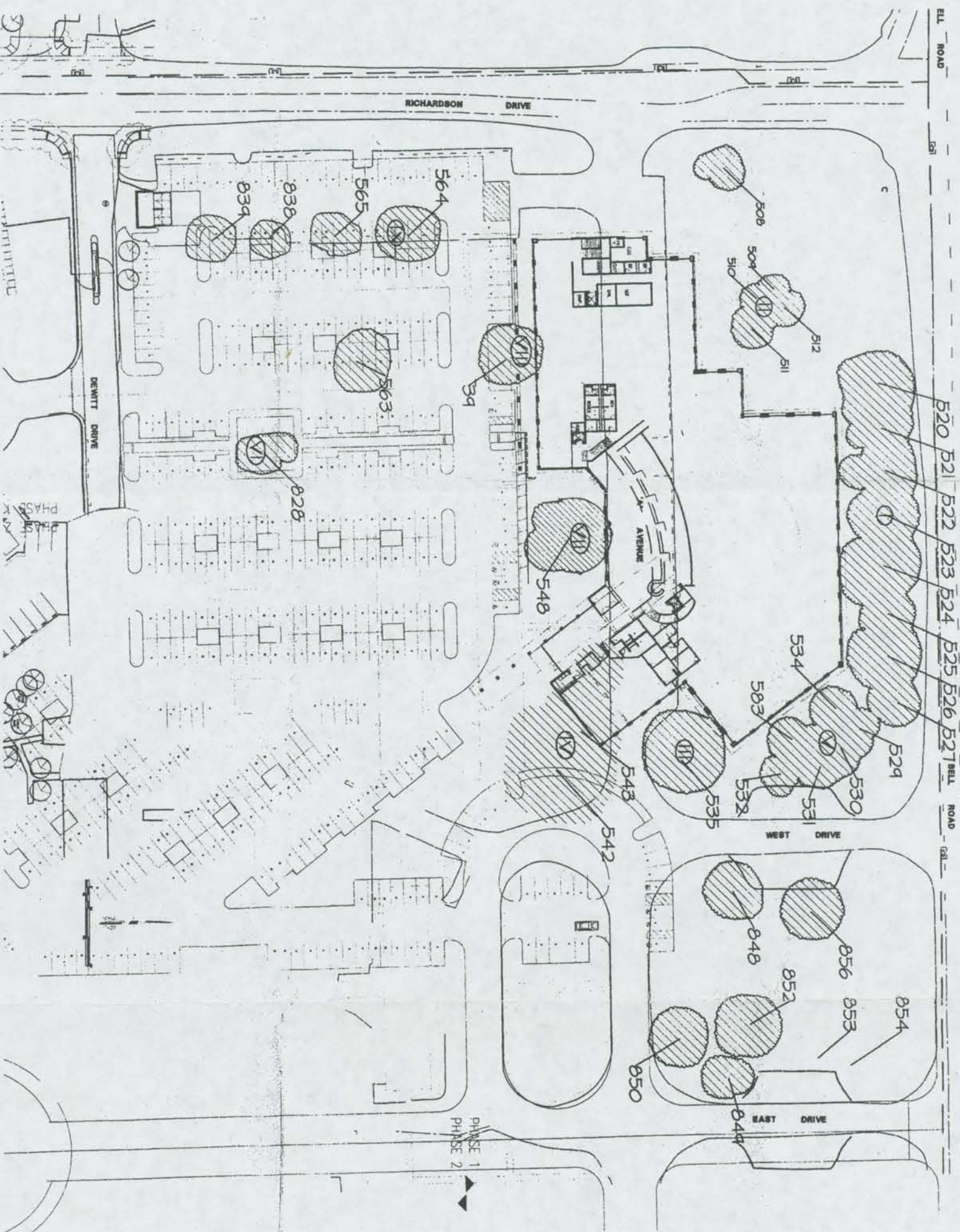
Diameter	Trunks: 10-12-12"
Dripline Radius	25'
Root Crown	Normal
Trunk	Normal
Limbs	Normal/w/Dieback
Foliage	Normal
Dripline Environment	Open/Lawn
Overall Condition	Good/Fair (4)
Comments	Crown clean

TREE # 983 **Quercus douglasii - Blue Oak**

535 Diameter	Trunks: 2-23"-24"
Dripline Radius	23-35'
Root Crown	Decay
Trunk	Sound
Limbs	Normal/Excess Dieback
Foliage	Sparse
Dripline Environment	Open
Overall Condition	Poor (1)
Comments	<ul style="list-style-type: none"> * Trenching and grading will have an impact not known. * Exhibits epicormic growth. * Minimal tip growth. * Buttress roots decayed. * Mistle toe. * Remove tree.

TREE LEGEND

TREE # 34	Platanus acerifolia - Oriental Plane
TREE # 306	Pinus virginiana
TREE # 504	Sequoiadendron giganteum - Giant Sequoia
TREE # 510	Sequoiadendron giganteum - Giant Sequoia
TREE # 511	Sequoiadendron giganteum - Giant Sequoia
TREE # 512	Sequoiadendron giganteum - Giant Sequoia
TREE # 520	Acer saccharum - Silver Maple
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TREE # 528	Acer saccharum - Silver Maple
TREE # 529	Liquidambar styraciflua - Sweet Gum
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TREE # 534	Liquidambar styraciflua - Sweet Gum
TREE # 542	Quercus douglasii - Blue Oak
TREE # 543	Quercus douglasii - Blue Oak
TREE # 548	Acer saccharum - Silver Maple
TREE # 563	Ulmus parvifolia - Chinese Elm
TREE # 575	Cupressus glabra - Arizona Cypress
TREE # 828	Quercus ruber - Cork Oak
TREE # 848	Chimonium camphora - Camphor Tree
TREE # 849	Chimonium camphora - Camphor Tree
TREE # 850	Chimonium camphora - Camphor Tree
TREE # 856	Chimonium camphora - Camphor Tree
TREE # 903/535	Quercus douglasii - Blue Oak



NORTH



YAMASAKI
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PLACER COUNTY
LAND DEVELOPMENT BUILDING
BELL ROAD
AUBURN, CALIFORNIA

TREE REPORT

Sheet No. _____

Scale _____

Jeffrey M. Anderson
No. 4037
State of California
Landscape Architect

No. Date Booklet

Project No.: HWY _____ Sheet No. _____
 County: HAVI _____
 Scale: NT S I
 Date: 9-25-02

Title Name PROJECT of 1 sheets

SPECIFICATIONS AND RECOMMENDATIONS PRIOR TO AND DURING CONSTRUCTION

Related to construction around trees to remain.

- I. The Acer saccharinum - Silver Maple, to remain except for the following.
 - * Remove trees number 521, 523, 525 and 527.
 - * Shall be irrigated regularly
 - * Keep construction equipment out of the drip line environment
 - * Fertilize
- II. The Sequoiadendron giganteum - Giant Sequoia
 - * Tree has Blight and cankers; prune out infected and dead twigs and branches
 - * Continue irrigation through out the drip line area
 - * Keep construction equipment out of the drip line environment
 - * Fertilize
- III. The Quercus douglasii - Blue Oak - #535-983
 - * Trunk diameter @ 4'6" above grade = 23" and 24" drip line radius = 30'
 - * Root crown exhibits decay and large cavities
 - * Buttress roots on south side decay
 - * Trunk - Normal and sound
 - * Limbs although apparently sound contain decay and dieback
 - * Epicormic growth is noted which usually indicate root stress

Grading; excavation and filling will negatively effect the health of the tree if it involves a large area of the roots. Trenching excavation may alter unseen subsurface drainage or moisture which also may negatively effect the tree. Grading and trenching operations outside of the dripline environment can alter existing subterranean water movement which may negatively impact this tree causing further stress.

In view of the extensive construction activity proposed in the vicinity, and the over all structure health and prognosis for longevity, It is recommended that this tree be removed due to Root Crown decay.

As noted in Bob Henwood study thickness of sound wood in the trunk is as little as 6" because of the Root Crown decay cavity.

- IV. The Quercus douglasii - Blue Oak # 542
This tree demonstrates severe root loss which has caused the decline. The loss of roots may have been the result of excess lawn irrigation, soil compaction, grading and paving. This tree should be removed. The removal of this tree and the demolition of the apartment building may impact the stability of tree #543 Quercus douglasii - Blue Oak which appears to be in good condition with a slight lean away from tree #542. This tree should be removed when tree #542 is removed.
- V. Liquidambar styraciflua - Sweet Gum, Grove of 6 Trees
* Prune bowing and crossing branches
* Continue irrigation
* fertilize
- VI. The Quercus suber - Cork Oak, located adjacent to the building to be demolished is in good condition and should be preserved. Demolition activity around the building must take place avoiding damage to the root system and branching. It is recommended that the tree be pruned prior to construction activity. A temporary shade structure should be constructed prior to the following spring/summer season to protect the previously shaded area from sun scald. Additional Cork Oaks should be included in the landscape creating grove which will ultimately provide sufficient shade.
- VII. Tree #548 - Acer saccharinum - Silver Maple, is in good condition. All construction activity should avoid the drip line area. The Silver Maple will require continuous irrigation during the Spring, Summer and Fall season. It will not tolerate excess drought and root disturbance.
- VIII. Tree #39 - Platanus acerifolia - London Plane Tree, This tree is in good condition maintain irrigation and fertilize.
- IX. Two Zelkova serrata - Sawleaf Zelkova - #564 and #839
Two Platanus acerifolia - London Plane Tree - #565 and #538, should be saved. This can be accomplished by designing the parking area as indicated. See attached partial parking area site plan.

ON GOING MAINTENANCE RECOMMENDATIONS

During construction, the existing trees which are to remain, shall be properly irrigated to prevent drought stress damage.

Many of the trees exhibit stress from lack of moisture because of erratic and insufficient irrigation.

The following remedial and maintenance work should be done to keep the trees healthy.

Acer saccharinum - Silver Maple to remain

- a. Prune all branches which are weak, dead or dying
- b. Irrigate and Fertilize

The Sequoiadendron giganteum - Giant Sequoia

- a. Irrigate and Fertilize

Quercus douglasii - Blue Oak

See separate analysis/recommendations

Cinnamomun camphora - Camphor Tree

- a. Remove dead wood
- b. Irrigate and fertilize

Zelkova serrata - Sawleaf Zelkova

- a. Continue irrigation
- b. Remove dead wood
- c. Irrigate and Fertilize

Platanus acerifolia - London Plane Tree

- a. Continue irrigation and fertilize

Quercus suber - Cork Oak

- a. Raise low hanging branches
- b. Following demolition of building, the exposed area of the tree should be shaded during the summer and also guyed to prevent being wind blown.

Liquidambar styraciflua - Sweet Gum

- a. Prune dead and damaged branches
- b. Remove crossing and bowed branches
- c. Continue irrigation and fertilize

Zelkova serrata - Saw Leaf Zelkova

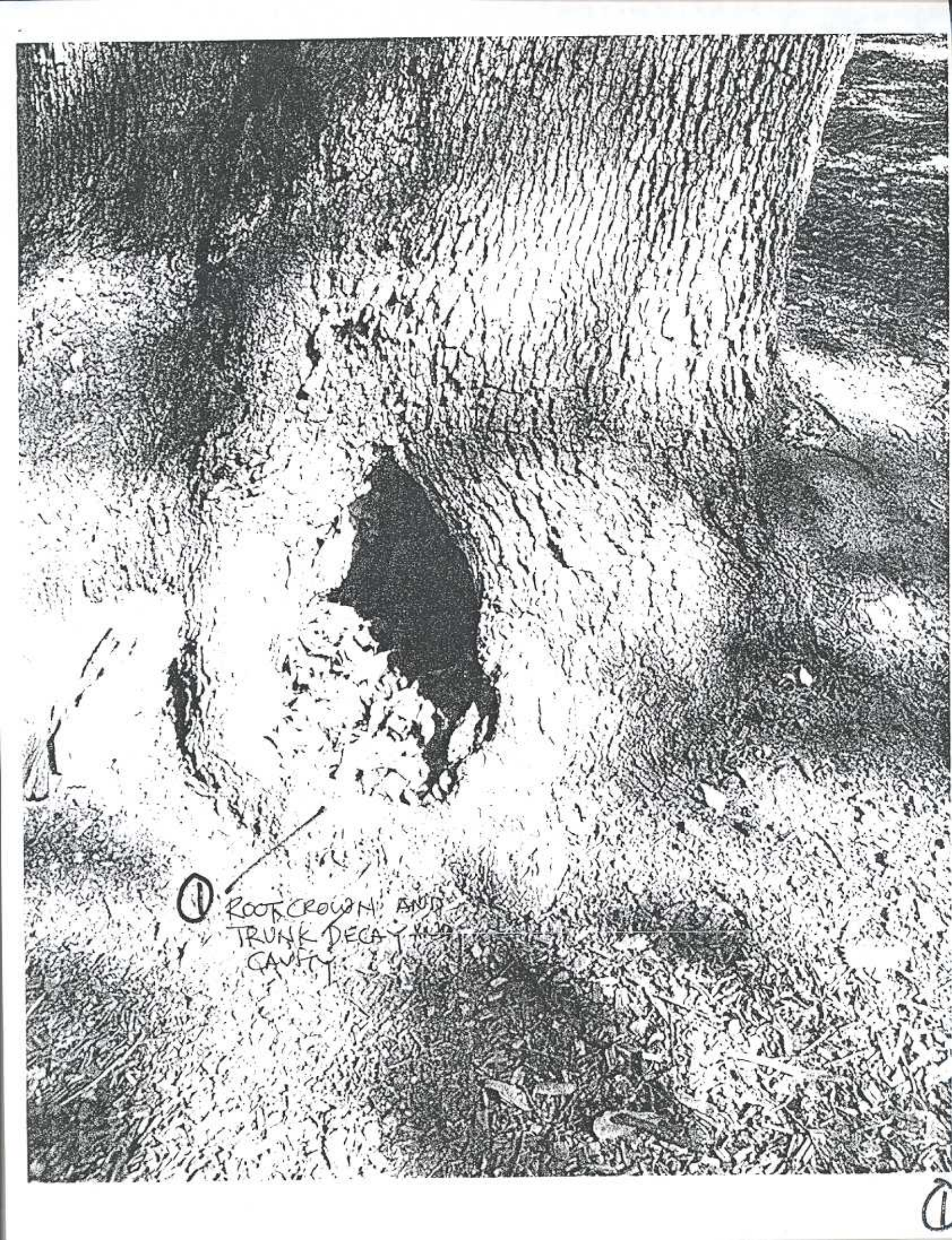
Slated for removal for the redesigned parking lot. Tree #564 and 839 are nice trees. Keep the trees if at all possible to redesign this area of the parking lot to accommodate trees. Irrigate and fertilize.

Laurus nobilis - Sweet Bay

There are many Sweet Bay located at the foundation of the various buildings. Transplant with a tree spade following demolition of buildings. The trees can be transplanted to other buildings on the Dewitt Complex or temporarily stored for use in new landscaping for the proposed building.

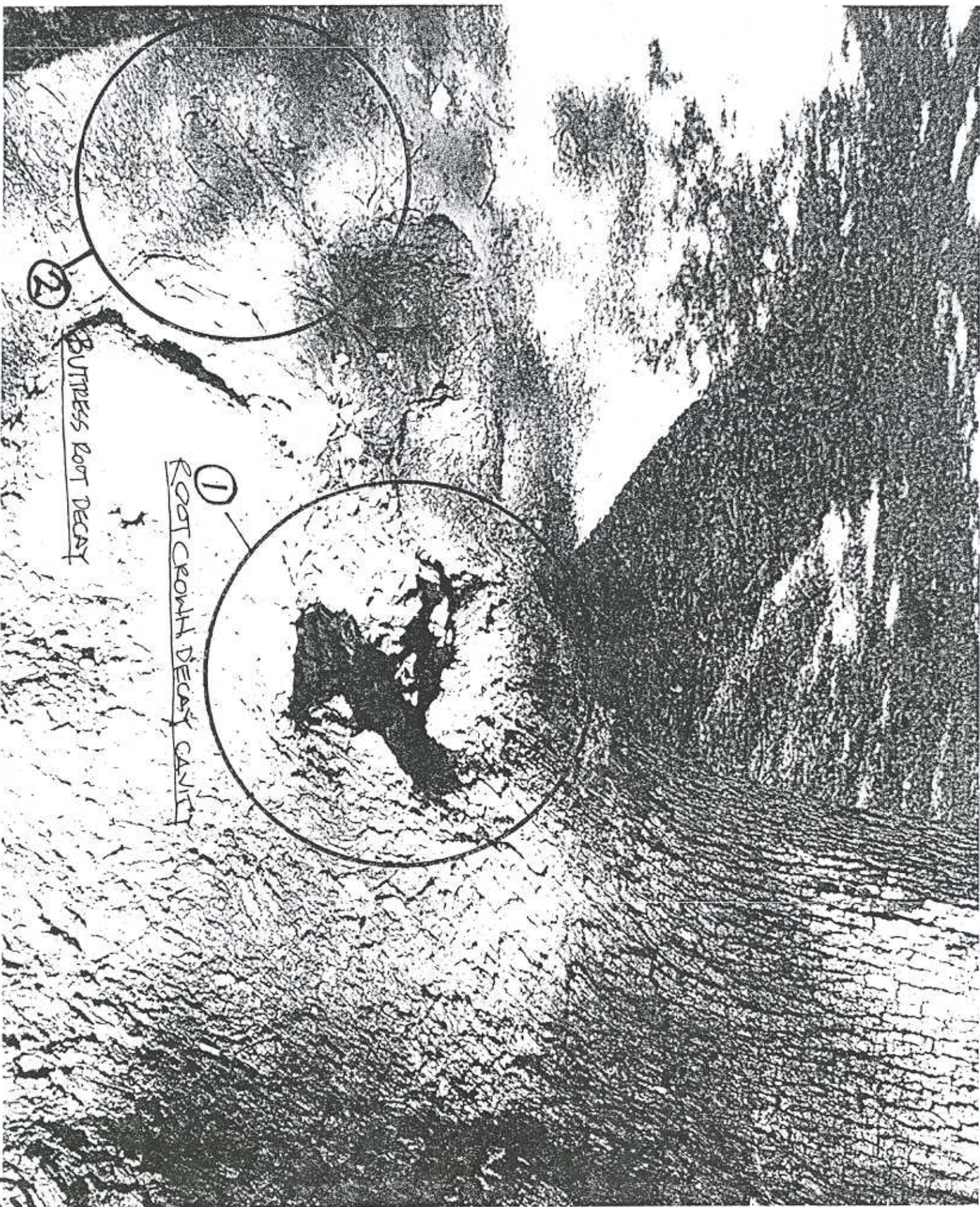
Fertilize all trees with 16-20-0 pelletized fertilizer @ 2-4# of actual nitrogen per 1,000 square feet of drip line area. Timing: (Fall)

If the trees #564, 565, 538 and #839 are to be saved in the new parking area, grading should be limited to the removal of the existing paving and the addition of 3/4 x 1 1/2" crushed rock 3" thick for base material, topped with 2-3" base material then asphaltic paving.



① ROOT CROWN AND
TRUNK DECAY AND
CAVITY

①





(4)

